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2017 Storm Water Control Installation Update

Erik Loechell

December 21, 2017

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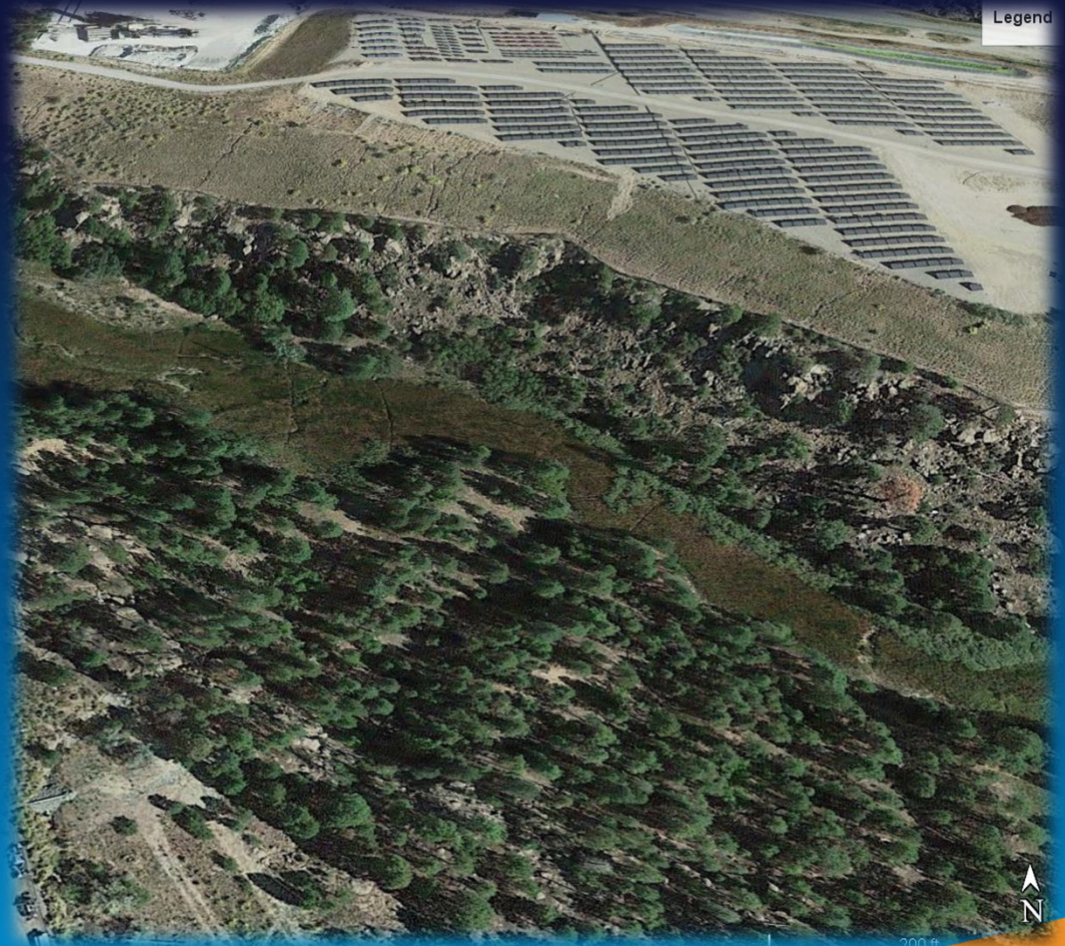
Overview

- Performed 65 storm water control installations
- Performed maintenance of 15 storm water controls
 - Drivers:
 - Storm water control inspections
 - Site related erosion and changes in site condition
 - Background, Driver, Goal, Product, Challenges



Sandia Canyon Wetland

- Historically received storm water from highly impervious areas in TA-3
 - Headcutting occurring upgradient of wetland
 - Resulted in sediment aggradation in wetland
- New controls installed in 2016 reduced contributing storm water to wetland and previously eroding locations



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Sandia Canyon Wetland

- **Driver-** Wetland health and maintenance
- **Goal-** Reduce further sediment intrusion to wetland. Minimize construction footprint
- **Product-** 2 log check dams, coir logs, and flow dissipater mostly utilizing on-site materials



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Sandia Canyon Wetland

- **Challenges-**
Obtaining on-site resources,
new design for
log check dams,
wetland species
habitat



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Sandia Canyon Wetland



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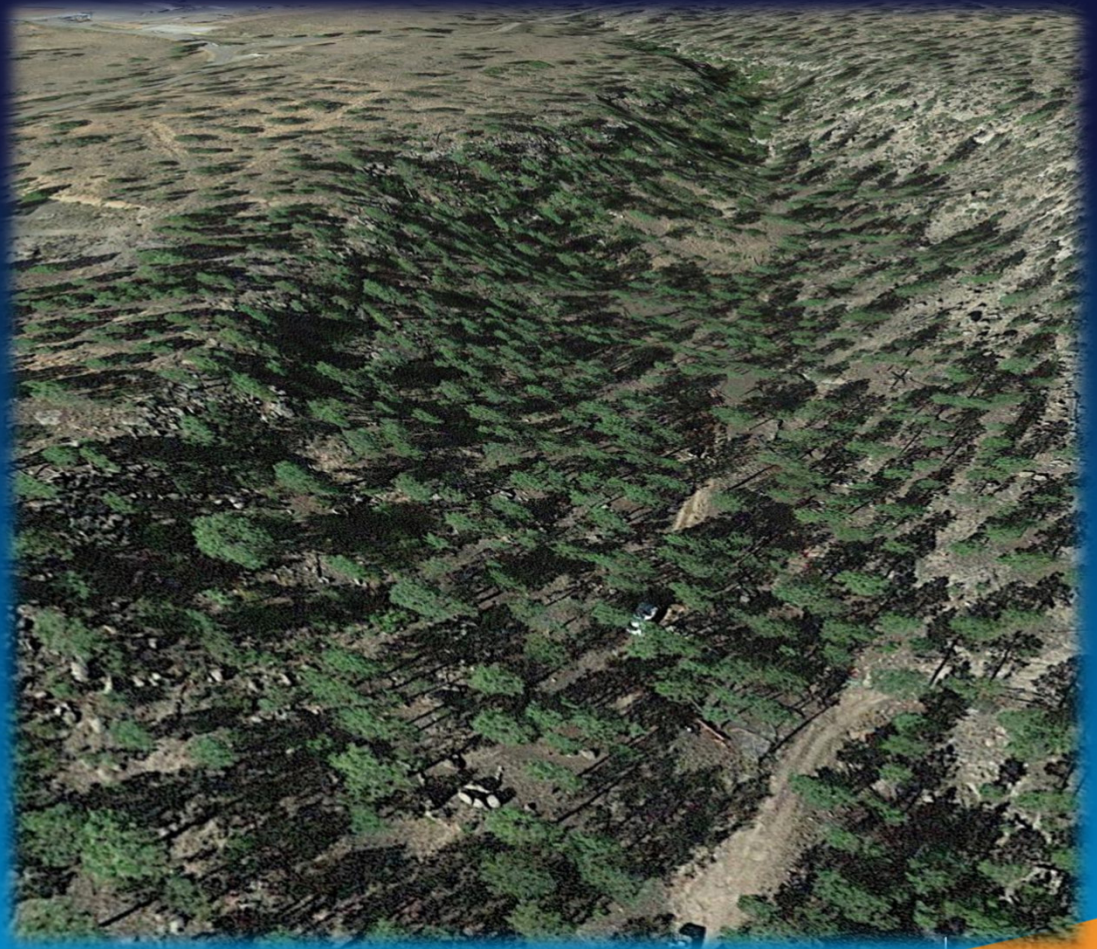
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3M-SMA-0.6

- Surface disposal area for diagnostic tests of weapons components. Operational from 1951 to 1978.
 - Expedited clean-up performed in July 2000 after Cerro Grande Fire
- Storm water sampling location not representative of entire hillslope



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3M-SMA-0.6

- Top of hillslope



- Bottom of hillslope



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3M-SMA-0.6

- **Driver-** Collect representative sample
- **Goal-** Construct control to divert storm water and obtain a more representative sample from hillslope
- **Product-** Earthen diversion berm



3M-SMA-0.6

- **Challenges-** Mexican Spotted Owl Habitat, radiological Site, firing sites (area closures), weather (rain and lightening), Site access on fire road, secured area



3M-SMA-0.6



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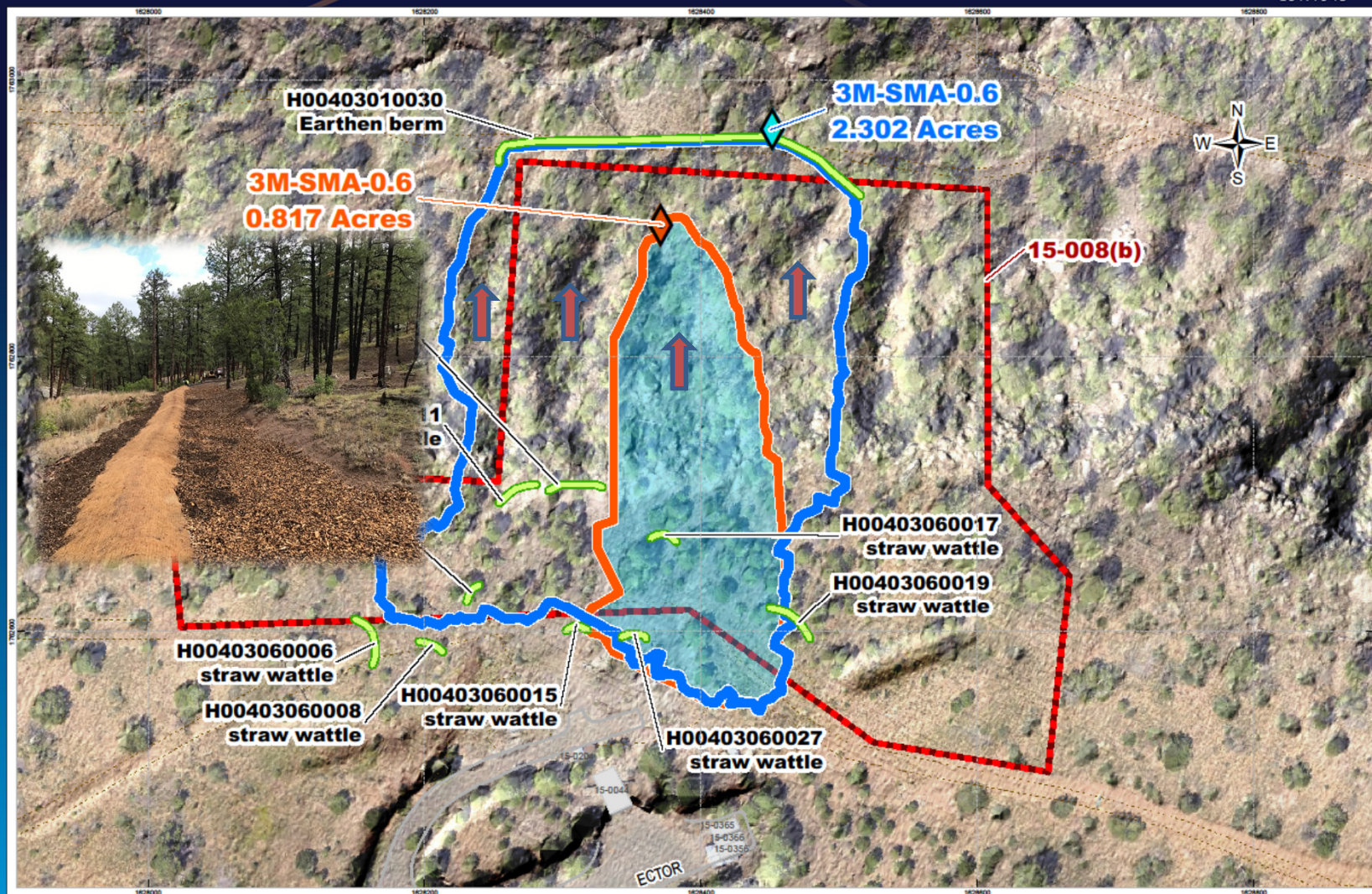
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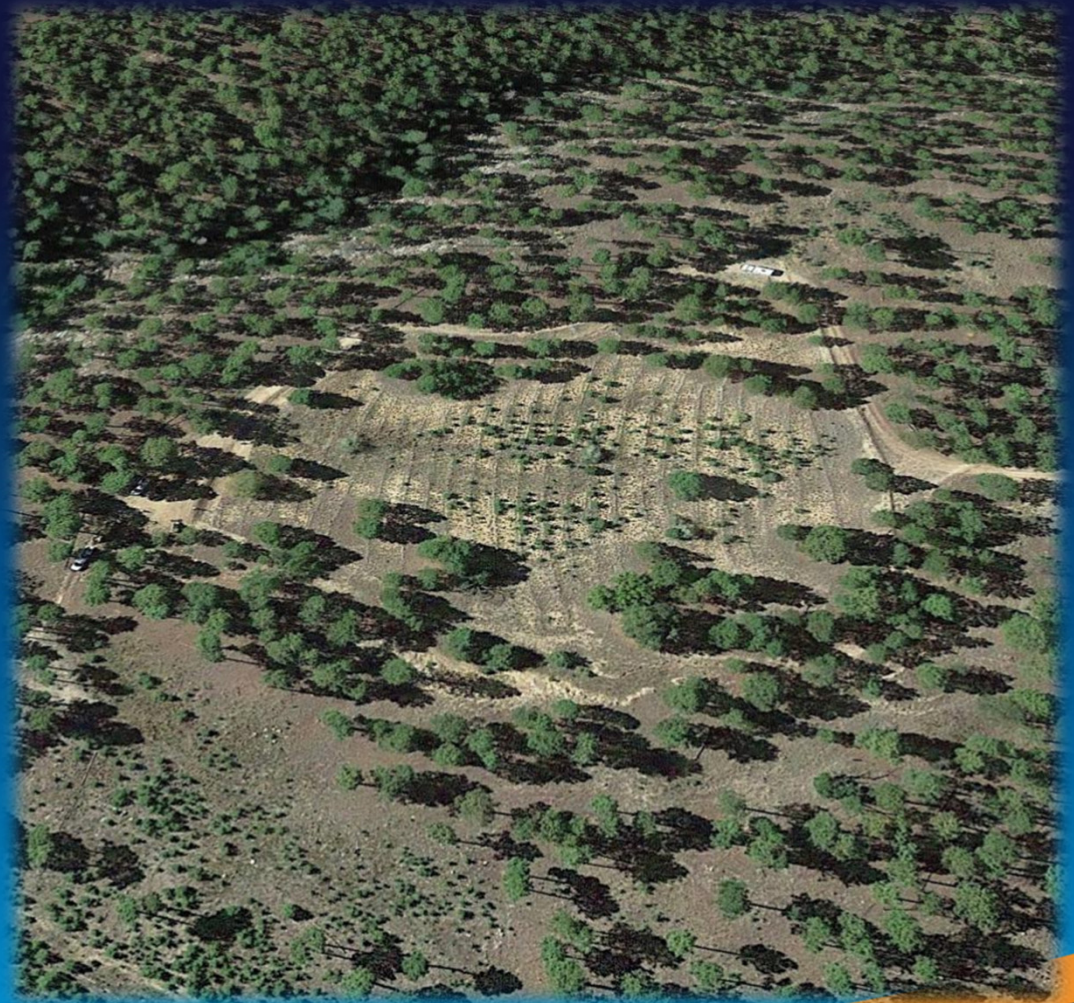
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STRM-SMA-5.05

- Material Disposal Area (MDA) M. Consisted of two disposal areas. Created during demolition of two HE Sites
 - Debris from demolition deposited on the surface of the MDA
 - All surface debris removed during 1995-1996 cleanup



STRM-SMA-5.05

- **Driver-** Individual Permit
- **Goal-** Increase retention area
- **Product-** Earthen berm with greater capacity



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- **Challenges- Access to Site, secured area**



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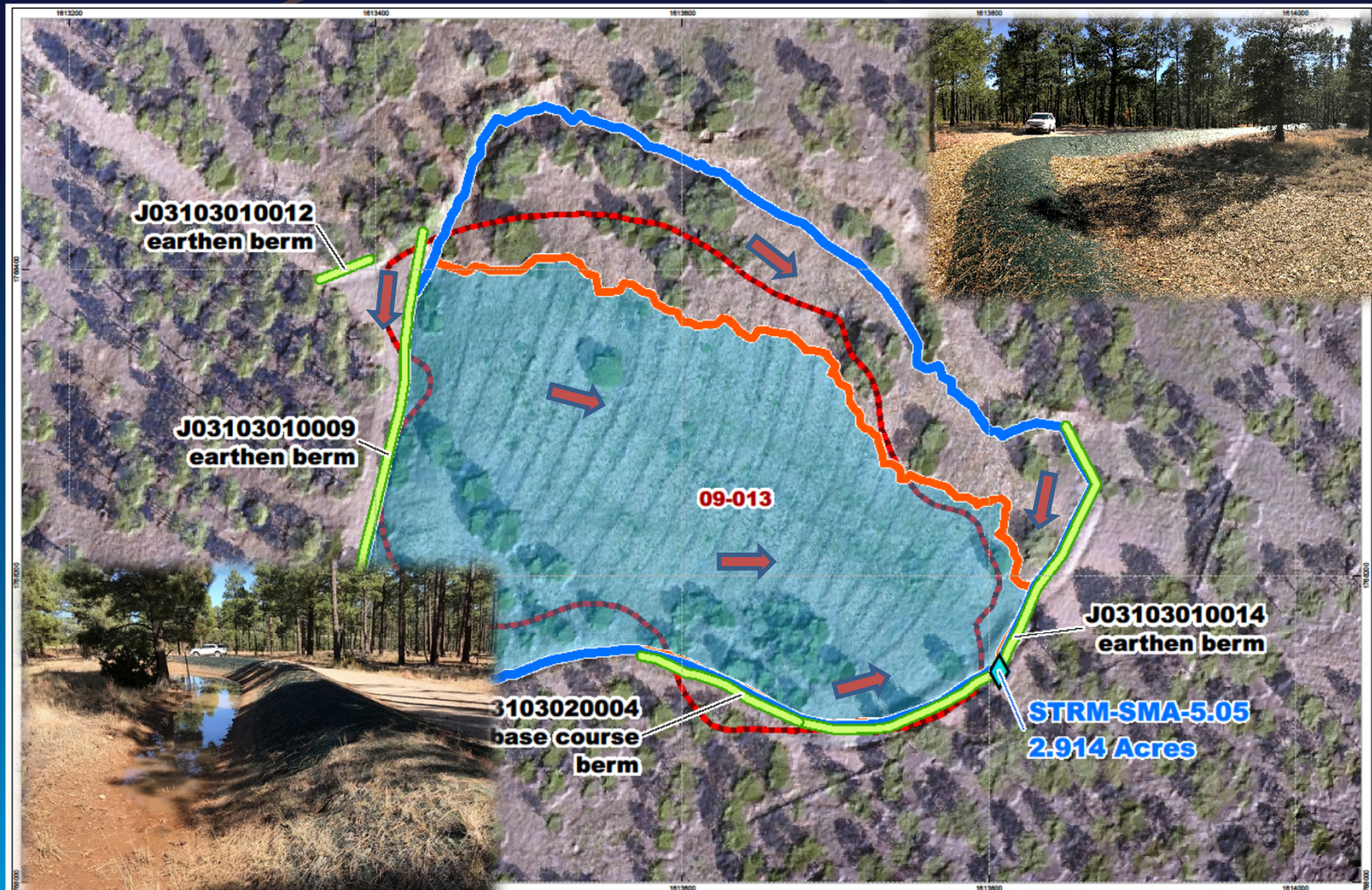
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